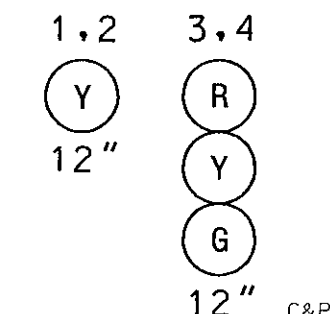
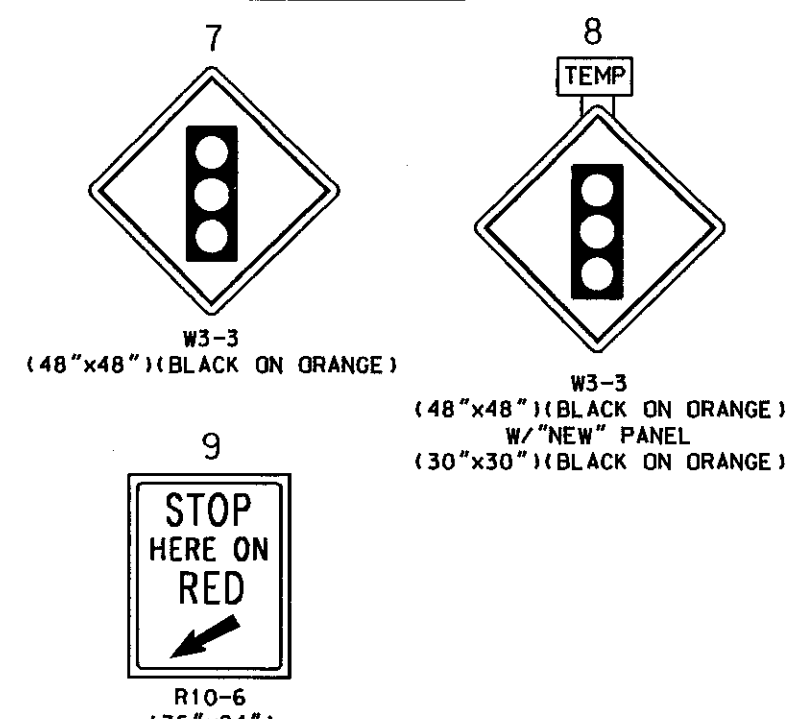


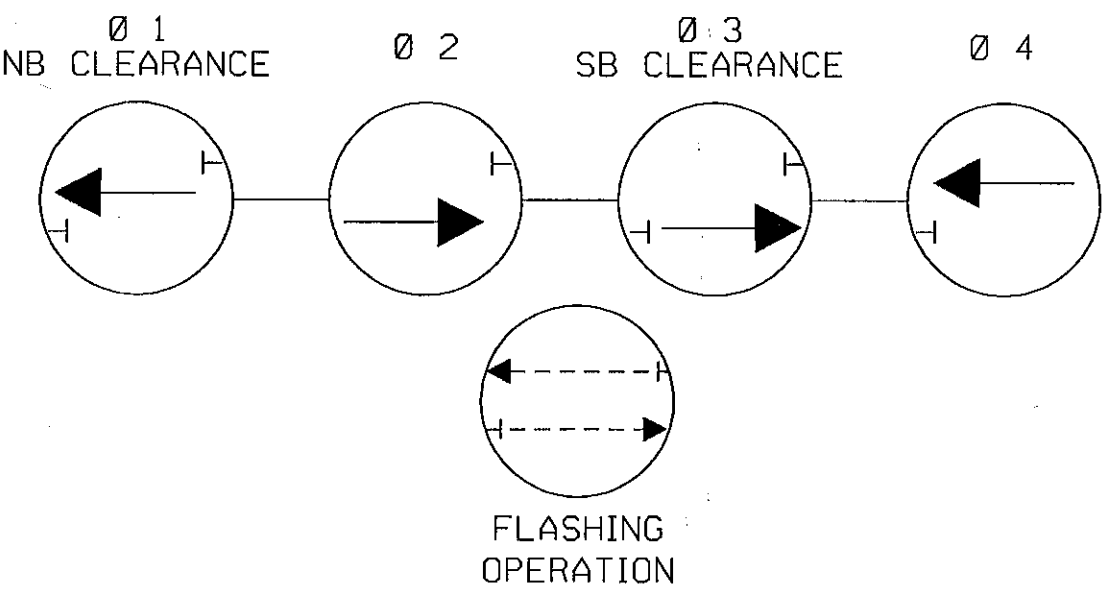
PROPOSED
SIGNAL HEADS



PROPOSED
SIGNS



NEMA PHASING



- PHASING NOTES:
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
 2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
 3. PHASING SHALL OPERATE IN A FOUR PHASE SEQUENTIAL OPERATION.

CONSTRUCTION DETAILS

- INSTALL 27 FT. STEEL POLE WITH A 38 FT. MAST ARM, TRAFFIC SIGNAL HEADS, 3 IN. WEATHERHEAD AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. (INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
- INSTALL 27 FT. (CUT TO 21 FT.) STEEL POLE WITH A 60 FT. (CUT TO 27 FT.) MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS AND "G" SIZE POLE MOUNTED CABINET AND TWO-CIRCUIT FLASHER UNIT AND ELECTRICAL UTILITY SERVICE EQUIPMENT (120/240V, 60 AMPS). (INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
- INSTALL 8 IN. REMOVABLE PATTERNED BLACK LINE MASK TAPE FOR MAINTENANCE OF TRAFFIC TO COVER EXISTING DOUBLE YELLOW CENTERLINE SOUTH OF PROPOSED STOP LINE AS DIRECTED BY THE ENGINEER.
- INSTALL R10-6 SIGN (36 IN. X 24 IN.) MOUNTED ON ONE 4 IN. X 4 IN. WOOD SIGN SUPPORT. THE COST OF THE 4 IN. X 4 IN. WOOD SIGN SUPPORT WILL NOT BE MEASURED BUT WILL BE INCIDENTAL TO THE SQUARE FOOT COST FOR TEMPORARY TRAFFIC SIGNS.
- INSTALL 24 IN. WHITE REMOVABLE PREFORMED PAVEMENT MARKING.
- INSTALL ELECTRICAL HANDHOLE
- INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
- CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.
- INSTALL 3/8 IN. STEEL SPAN WIRE FROM STEEL POLE TO THE BRIDGE TRUSS.
- INSTALL 6 FT. X 6 FT. (4-TURNS) LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
- INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
- INSTALL 2 IN. FLEXIBLE STEEL CONDUIT STRAPPED TO TOP OF THE EXISTING TRUSS WITH POLYESTER STRAPPING SECURED WITH BUCKLES. THE CONTRACTOR SHALL SUBMIT A PLAN FOR APPROVAL TO THE ENGINEER OF THE STRAPPING LOCATIONS. COST OF THE STRAPS WILL BE INCIDENTAL TO THE LINEAR FOOT COST OF THE CONDUIT ATTACHED TO THE BRIDGE. THE CONTRACTOR SHALL PROVIDE SUFFICIENT LENGTH OF FLEXIBLE STEEL CONDUIT TO RELOCATE ON TRUSS AS NECESSARY TO COMPLETE THE BRIDGE PAINTING. RELOCATING CONDUIT STRAPS, STEEL SPAN, ETC. AS NECESSARY TO COMPLETE THE BRIDGE PAINTING WILL NOT BE MEASURED BUT WILL BE INCIDENTAL TO OTHER ITEMS IN THE CONTRACT.
- INSTALL 6 FT. X 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
- INSTALL 2 IN. SCHEDULE 40, RIGID STEEL ELECTRICAL CONDUIT ATTACHED TO OUTSIDE OF BRIDGE PARAPET USING 3 IN. MALLEABLE ONE-HOLE CLAMPS SPACED NOT MORE THAN 8 FT. ON CENTER SECURED WITH STAINLESS STEEL HARDWARE. THE CONTRACTOR SHALL SUBMIT A PLAN FOR APPROVAL TO THE ENGINEER FOR ATTACHING THE CONDUIT TO THE BRIDGE PARAPET. THE COST OF THE CLAMPS WILL NOT BE MEASURED BUT WILL BE INCIDENTAL TO THE LINEAR FOOT COST OF THE RIGID STEEL CONDUIT.
- PROPOSED OVERHEAD ELECTRICAL SERVICE.

GENERAL NOTES

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
2. TRAFFIC SIGNAL OPERATION TO REMAIN THE SAME DURING STAGE 2 OF THE CLEANING AND PAINTING OF BRIDGE NO. 10085. SEE MAINTENANCE OF TRAFFIC PLANS.
3. ALL TRAFFIC SIGNAL EQUIPMENT (STEEL POLE, HANDHOLES, ETC.) SHALL BE REMOVED AT THE COMPLETION OF STAGE 2 CONSTRUCTION. ALL POLE FOUNDATIONS SHALL BE REMOVED 12 IN. BELOW GRADE. THE CONTRACTOR SHALL NOTIFY SHA TO REMOVE THE SIZE "5" CONTROLLER CABINET, "G" SIZE CONTROLLER CABINET AND ALL AUXILIARY EQUIPMENT WITHIN.
4. CONTRACTOR SHALL NOT CUT MAST ARM AS INDICATED ON PLANS UNTIL MAST ARM POLE LOCATION IS FINALIZED.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	_____	A
ELECTRICAL	_____	E
TELEPHONE	_____	T
GAS	_____	G
SEWER	_____	SS
STORM DRAIN	_____	SD
WATER	_____	W
CABLE TV	_____	TV

WR&A
Whitman, Requardt
and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

REVISIONS	APPROVALS
	<i>Amy H. Beale 9/16/03</i> TEAM LEADER - TRAFFIC ENGINEERING DESIGN DIVISION
	<i>[Signature]</i> ASST. TRAFFIC ENGINEERING DESIGN DIVISION
	<i>[Signature]</i> 10-01-03 CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	<i>[Signature]</i> 10-01-03 DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
MD 355 BRIDGE NO. 10085 OVER MONOCACY RIVER

DRAWN BY: B. DONOWAY	F.A.P. NO.	TS NO.	SHEET NO. 2 OF 8
CHECKED BY: N. LEARY	S.H.A. NO. FR4345180	T.I.M.S. NO. F876	
SCALE: 1" = 20'	COUNTY: FREDERICK		
DATE: 9/18/2003	LOG MILE: 10035507.55		

MD\31541\Fredrick\MD 355 @ Monocacy\sg01md355@mon.dgn